RS232 To RS232/RS422/RS485 - ISO

User manual

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Features

- Micro-controller based RS232 to RS232/RS485/RS422 converter
- Isolated RS232/RS485/RS422 output
- USB interface to power the device and to configure the baud-rate, parity.
- A 10 to 30 Vdc supply connector for industrial applications.

Specification

Baud-rate	1200,2400,4800,9600,38400, 57600,115200, 230400
Flow-control	None
Stop bits	1

Data-bits	**Parity**
7	ODD, EVEN, MARK, SPACE
8	None, ODD, EVEN, MARK, SPACE

Output format selection

This board is RS-232 to RS-232/RS485/RS422 converter. User can select any one of the output formats by DIP-switch as shown below,

Output format	**SW-1**	**SW-2**	**SW-3**	**SW-4**
RS232	ON	OFF	OFF	NA
RS485	OFF	ON	OFF	ON
RS422	OFF	OFF	ON	NA
RS485 4 wire	OFF	OFF	ON	ON

Power supply

There are two power supply options,
1. 10 to 30 VDC supply
2. Through USB port of PC

Caution- Use only one supply at once, do not connect 10 to 30 VDC supply while it is connected to PC USB port.

USB driver installation

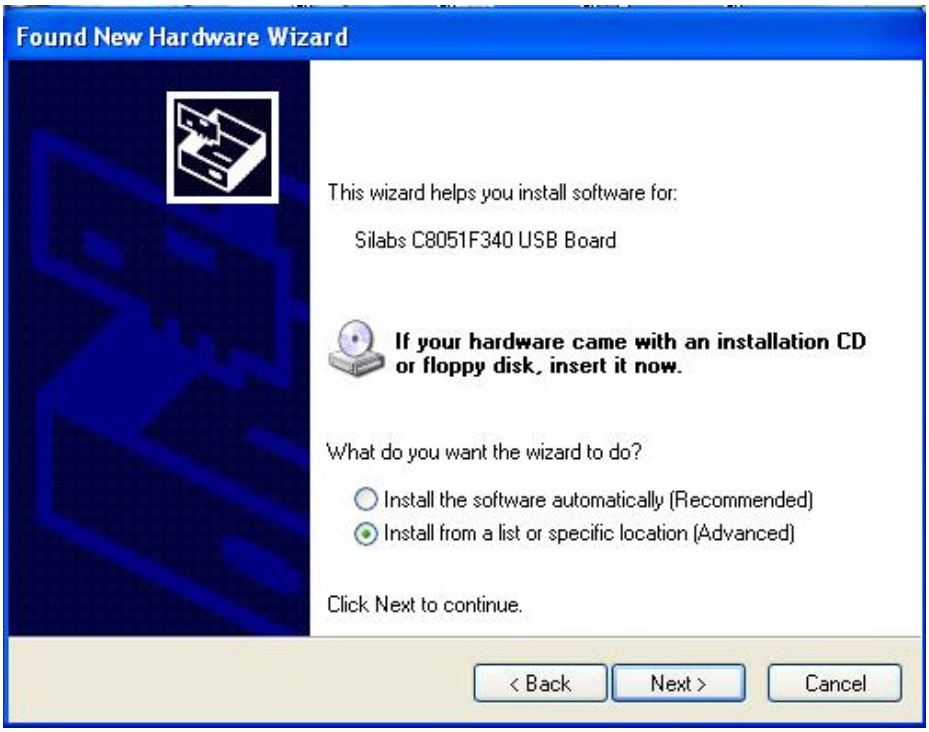
1. Apply DC power supply (10-30VDC) to converter as specified in connection details.
2. Connect converter to USB port of computer using standard USB cable.
3. Computer will detect new device and its driver installation screen will appear as shown below.

Found New Hardware Wizard
Welcome to the Found New Hardware Wizard
Windows will search for current and updated software by looking on your computer, on the hardware installation CD, or on the Windows Update Web site (with your permission).
Read our privacy policy
Can Windows connect to Windows Update to search for software?
Yes, this time only
Yes, now and every time I connect a device
No, not this time
Click Next to continue.
< Back
Next >
Cancel

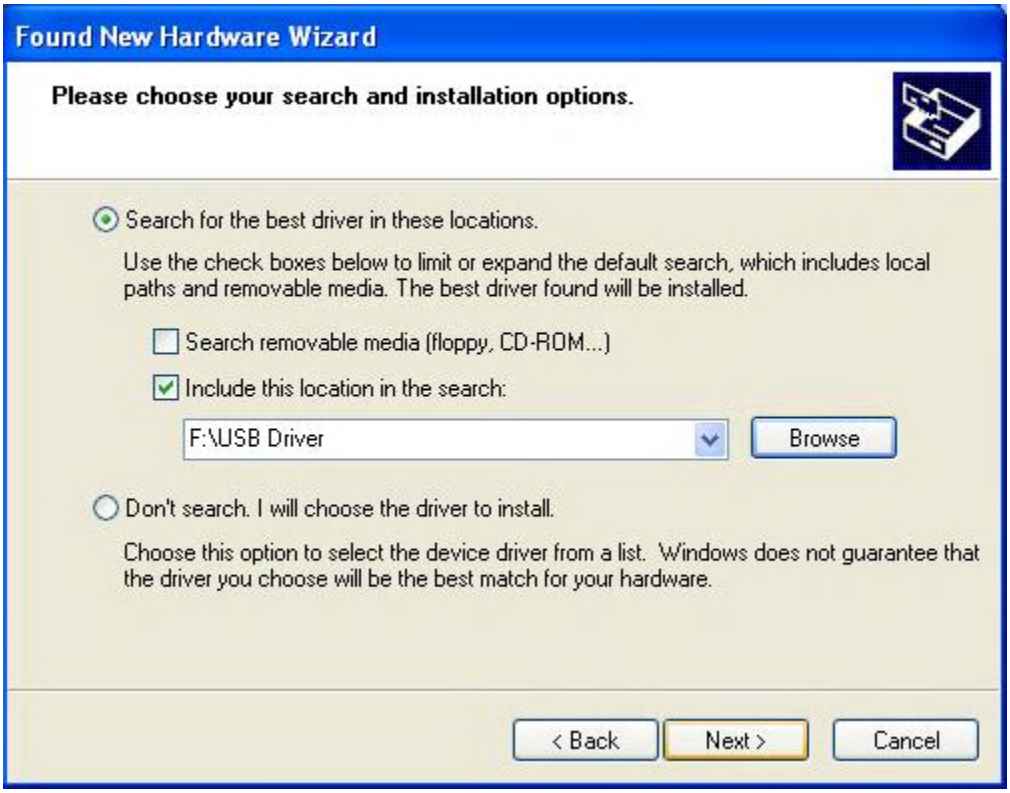
4. Select **No, Not this time** option and click on Next as shown below.

Found New Hardware Wizard
Welcome to the Found New Hardware Wizard
Windows will search for current and updated software by looking on your computer, on the hardware installation CD, or on the Windows Update Web site (with your permission).
Read our privacy policy
Can Windows connect to Windows Update to search for software?
Yes, this time only
Yes, now and every time I connect a device
No, not this time
Click Next to continue.
< Back
Next >
Cancel

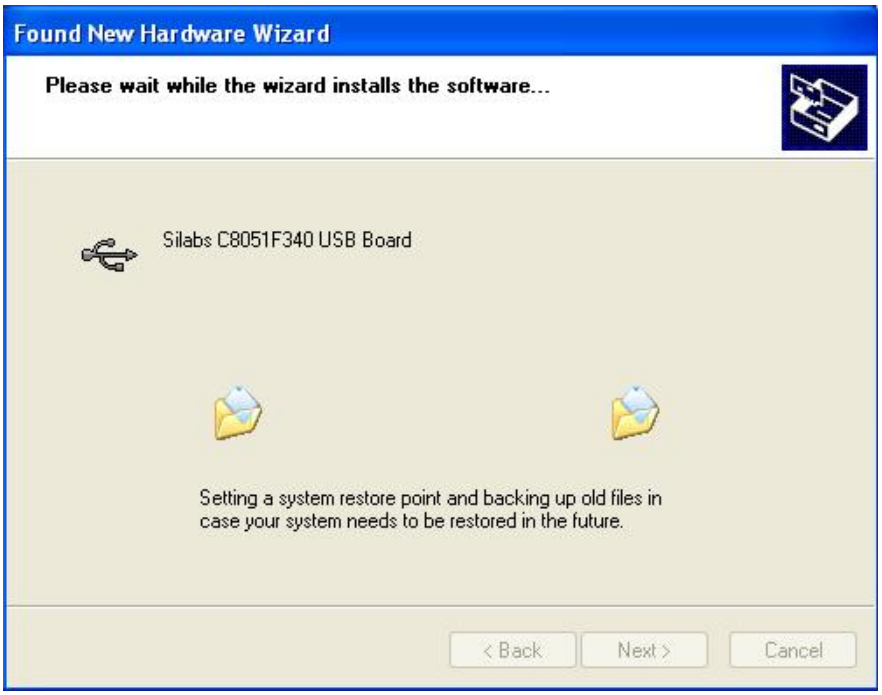
5. On next screen, select **Install from list or specific location (advanced)** option and click on Next, as shown below


Found New Hardware Wizard
This wizard helps you install software for:
Silabs C8051F340 USB Board
If your hardware came with an installation CD or floppy disk, insert it now.
What do you want the wizard to do?
Install the software automatically (Recommended)
Install from a list or specific location (Advanced)
Click Next to continue.
< Back
Next >
Cancel

6. On next screen, select **Search for the best driver in these locations.** Then click on **include this location in the search.** Then browse **USB Driver** folder on CD provided with converter and click on Next.


Found New Hardware Wizard
Please choose your search and installation options.
Search for the best driver in these locations.
Use the check boxes below to limit or expand the default search, which includes local paths and removable media. The best driver found will be installed.
Search removable media (floppy, CD-ROM...)
Include this location in the search:
F:\USB Driver
Browse
Don't search. I will choose the driver to install.
Choose this option to select the device driver from a list. Windows does not guarantee that the driver you choose will be the best match for your hardware.
< Back
Next >
Cancel

7. Windows will start installing Driver as shown below.

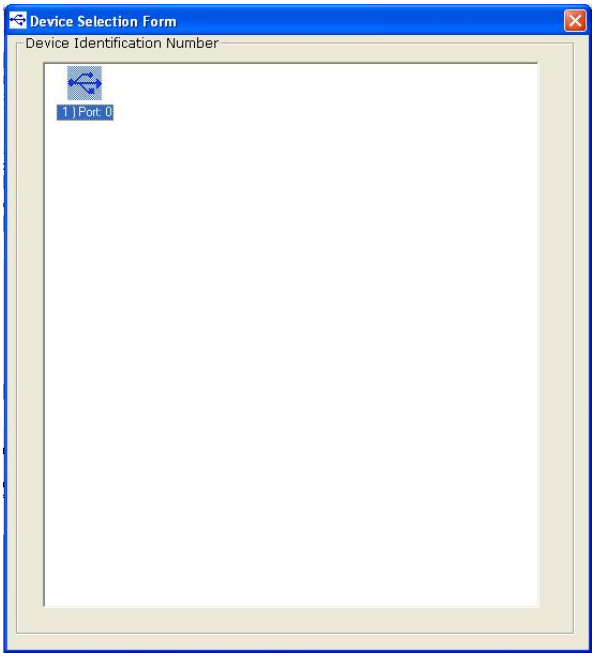

Found New Hardware Wizard
Please wait while the wizard installs the software...
Silabs C8051F340 USB Board
Setting a system restore point and backing up old files in case your system needs to be restored in the future.
< Back
Next >
Cancel

8. After finishing the installation, click on Finish to complete the installation.

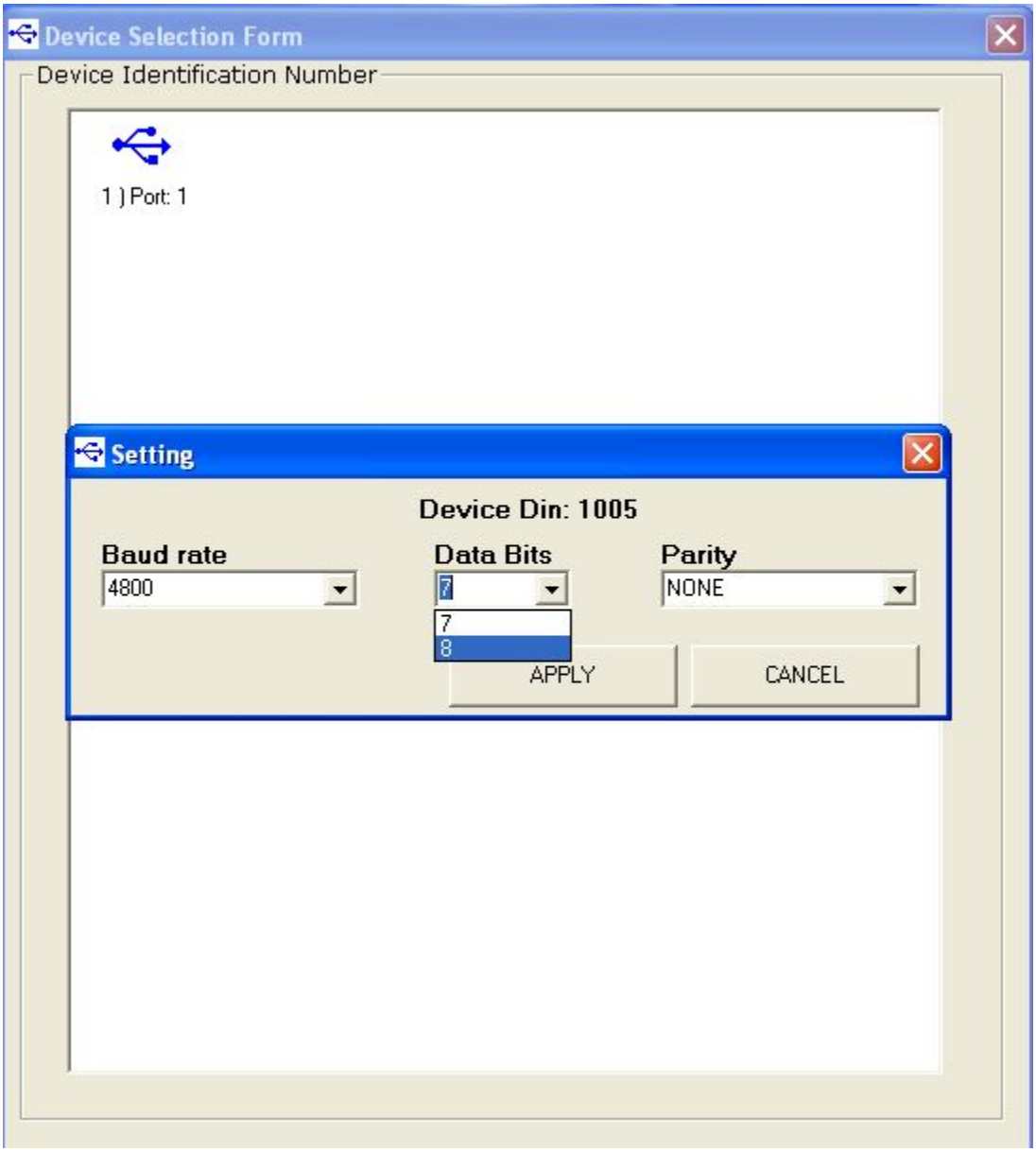
Found New Hardware Wizard
Completing the Found New Hardware Wizard
The wizard has finished installing the software for:
Silabs C8051F340 USB Board
Click Finish to close the wizard.
< Back
Finish
Cancel

Parameter Configuration:

1. Click on "**RS232_485 converter.exe**" in the **Config_Utility** folder of the CD.
2. You will see following screen.
3. Double Click on ICON appeared on screen. You will see configuration screen as shown below.



4. Select appropriate baud rate and parity settings, data bits from dropdown lists and click on APPLY to apply the settings



Connectors

Left side connectors

Name	Connector	Description
USB	USB type B	USB 2.0 Compatible
RS232 Input	3 pin Screw terminal	
External power supply	2 pin Screw terminal	10 to 30 V-DC power supply

Right side connectors,

Name	Connector	Description
RS232 Output	3 pin screw terminal	
RS485 Output	2 pin screw terminal	TX+ & TX- becomes D+ & D- of RS485
RS422 Output	4 pin Screw terminal	TX+, TX- & RX+, RX-